

Review for Ch 4.4 - 4.8 Answers

→ P320 ←

#22 $r = \frac{1}{2}, r = \frac{8}{3}$

23 DO NOT DO

24 $a = -\frac{3}{4}, a = \frac{7}{5}$

25 $k = -6, k = 6$

26 $y = -\sqrt{2}, y = \sqrt{2}$

27 $p = -1 - 3\sqrt{3}, p = -1 + 3\sqrt{3}$

28 about 6371 km

29 $-9 - 8i$

30 $22 - 6i$

31 29

32 $15 - 2i$

33 $-4 + 2i$

34 $\frac{8}{15} - \frac{4}{15}i$

35 $k = 3 + 2\sqrt{6}, k = 3 - 2\sqrt{6}$

36 $k = 2 + \frac{\sqrt{33}}{3}, k = 2 - \frac{\sqrt{33}}{3}$

37 $k = \frac{-3 + \sqrt{13}}{2}, k = \frac{-3 - \sqrt{13}}{2}$

38) $k = -2 + \sqrt{7}$

$k = -2 - \sqrt{7}$

39) $k = -\frac{1}{3}$

$k = -\frac{1}{3}$

40) $k = \frac{4 + i\sqrt{2}}{6}$

$k = \frac{4 - i\sqrt{2}}{6}$

41 about
0.2 sec.

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→ p. 323 ←

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10 $x=5, x=8$

11 $x=6, x=7$

12 $x=-7, x=\frac{1}{2}$

13 $x=-\frac{3}{2}, x=\frac{2}{5}$

14 $x=7-2\sqrt{2}, x=7+2\sqrt{2}$

15 $x=-2-4\sqrt{3}, x=-2+4\sqrt{3}$

16 $1+9i$

17 $16-3i$

18 $\frac{3}{13} + \frac{11}{13}i$

19 $x=-2-3\sqrt{2}, x=-2+3\sqrt{2}$

20 $x=5-4\sqrt{2}, x=5+4\sqrt{2}$

21 $x=-\frac{3}{2}, x=-\frac{1}{2}$

22 $x=\frac{-5-2\sqrt{10}}{3}, x=\frac{-5+2\sqrt{10}}{3}$

23 $x=\frac{1-i\sqrt{47}}{4}, x=\frac{1+i\sqrt{47}}{4}$

24 $x=\frac{-1-2i\sqrt{6}}{5}, x=\frac{-1+2i\sqrt{6}}{5}$

→ p. 296 (evens) ←

32) 5

2 real
(irrational)

34) -223

2 complex

36) 173

2 real
(irrational)

38) 25

2 real
(rational)